



Serial No. 09/742,714
Docket No. 34646-00309USC1
Client No. P08430US3

EXHIBIT B
CLEAN SET OF PENDING CLAIMS

21. (New) A method for including Frame Time Indication for cell searching in a wireless communications system, said method comprising:

transmitting by a mobile station, in each slot of a frame a primary synchronization code and a secondary synchronization code, said secondary synchronization code comprising $\log_2(N_{ssc})$ bits of information to be used for a long code indication; and

modulating said secondary synchronization code by one of N_{mod} valid sequences.

1 22. (New) The method of claim 21, wherein said primary synchronization code and said
2 secondary synchronization code are transmitted at substantially the same time.

1 23. (New) The method of claim 21, wherein said N_{mod} value is greater than one.

1 24. (New) The method of claim 21, wherein following properties need to be satisfied if said
2 N_{mod} value is greater than one:

3 each said secondary synchronization code has sufficient cross-correlation properties;

4 and

5 no cyclic shift of a valid modulating sequence can result in another valid modulating
6 sequence.

6

1 25. (New) The method of claim 21, wherein said secondary synchronization codes are the
2 same in each slot.

1 26. (New) The method of claim 21, wherein said wireless communication system is a
2 WCDMA communication system.

1 27. (New) A method for including Frame Timing Indication for cell searching by a mobile
2 station, said method comprising:

3 transmitting, by a mobile station, in each frame, a sequence of 16 secondary
4 synchronization codes, said secondary synchronization codes comprising $\text{Log}_2(N_{\text{ssc_seq}})$ bits of
5 information to be used to obtain a long code indication; and

6 modulating said secondary synchronization code by one of N_{mod} valid sequences.

1 28. (New) The method of claim 27, wherein said sequence of 16 secondary synchronization
2 codes repeats in each frame.

1 29. (New) The method of claim 27, wherein each said secondary synchronization code is
2 unique.

1 30. (New) The method of claim 27, wherein each said secondary synchronization code is
2 unique and further has auto correlation and cross correlation properties.

1 31. (New) The method of claim 27, further comprising:
2 finding a valid secondary synchronization code sequence; and
3 determining a frame timing indication based on said valid secondary synchronization
4 code.

1 32. (New) The method of claim 27, wherein said long code indication can have 65,536
2 different values.